

CLAIMS:

1. A power supply arrangement (10) comprising:
a first power supply (11) having a configuration arranged to inhibit
electromagnetic interference, wherein said first supply produces at least one first output
voltage and supplies it to a first device (12) which is sensitive to electromagnetic
5 interference;
a second power supply (14) having a configuration arranged to produce at
least one second output voltage, wherein said second supply produces said at least one
second output voltage and supplies it to a second device (15, 16, 17); and
a control means (18) arranged to operate said second power supply, wherein
10 said second power supply is deactivated when said first device is operative and fed from said
first power supply.
2. The power supply arrangement (10) according to claim 1, wherein said first
device (12) comprises a tuner operated to receive in the AM/FM band.
- 15 3. The power supply arrangement (10) according to any one of claims 1 or 2,
wherein the two power supplies (11, 14) are fed from the same power supply main input
(Vin).
- 20 4. The power supply arrangement (10) according to any one of claims 1-3,
wherein the first power supply (11) comprises a resonant half-bridge converter (20).
5. The power supply arrangement (10) according to any one of claims 1-4,
wherein the second power supply (14) comprises a flyback converter (30).
- 25 6. The power supply arrangement (10) according to any one of the preceding
claims, wherein said power supply arrangement is included in an audio equipment together
with said first device (12, 13, 18) and said second device (15, 16, 17).

7. The power supply arrangement (10) according to claim 6, wherein said control means (18) is controlled by the audio equipment.

8. The power supply arrangement (10) according to any one of the preceding
5 claims, wherein the control means (18) comprises a microprocessor (19) running an application software which instructs said microprocessor how to operate said second power supply (14).